

ABSTRACT

The present invention is directed to a toroid used as an inductor or transformer to filter unwanted noise from electrical connectors and devices. The toroid comprises a metal ring surrounded by a platable and non-platable plastic cast, and a conductive layer deposited onto the platable cast. The toroid is manufactured by first molding the non-platable plastic, having helically patterned grooves, around the metal ring. The platable plastic is then molded into the grooves of the non-platable plastic. A conductive plating is then electrodeposited onto the platable plastic to form a helically patterned winding around the metal ring.